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## CENTRAL INTELLIGENCE AGENCY

CLASSIFICATION

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SECURITY INFORMATION**INFORMATION REPORT**REPORT NO. 

25X1

CD NO.

COUNTRY Hungary

DATE DISTR. 16 October 1952

25X1 SUBJECT The Inota Aluminum Works; Extraction of Alloys  
from Bauxite

NO. OF PAGES 2

NO. OF ENCLS.  
(LISTED BELOW)SUPPLEMENT TO  
REPORT NO.

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1. The new aluminum works 1 km. east of the eastern Inota power station is to be the largest factory of its kind in Hungary. At present, about 1,500 workers are employed there. New machinery and tooling for the works were supplied by Eastern Germany.
2. The works has not yet reached its full production capacity. New methods of production are under trial.
3. The most important of these experimental methods is the extraction of iron, titanium, chrome, and vanadium from the bauxite. This bauxite is processed by the normal Bayer method and from the resulting alumina, the aluminum is extracted. The residue, a red mud, is mixed with pyrites and iron-ore powder (vaseropor). The resultant mixture is made into bricks which are calcined and placed in furnaces where the iron content runs out. The alloys mentioned above are then extracted from this iron. No details of this latter process are known.
4. Only the best quality of bauxite has any yield of these alloys, and even then the percentage yield is small. The "red mud" remaining after the extraction of aluminum from the alumina has the following composition.
 

a.	Iron oxide	48%
b.	Titanium	7%
c.	Chrome	0.3%
d.	Vanadium (after further processing )	1 - 2 %

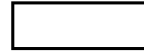
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5. The high-grade bauxite is mined in the following areas:
- a. Gant (County Fejér)
  - b. Iszkaszentgyörgy (County Fejér, 5 km. southwest of Székesfehérvár)
  - c. Halimba (County Veszprém)
  - d. Nyirad (County Zala).

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